

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954139

Luminaire Tested: **GALN-SB7C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49102 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

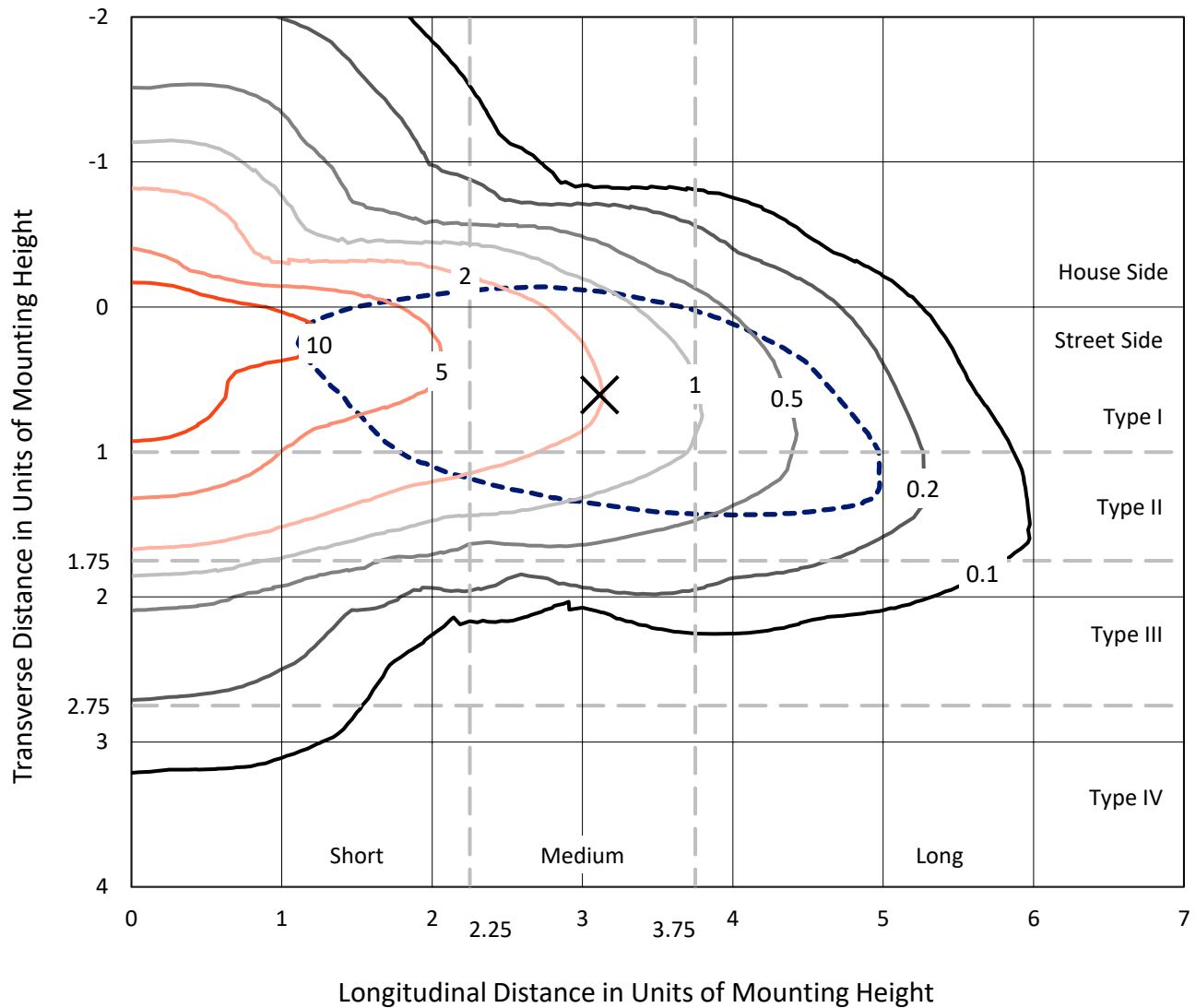


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Iso-Footcandle Lines of Horizontal Illumination

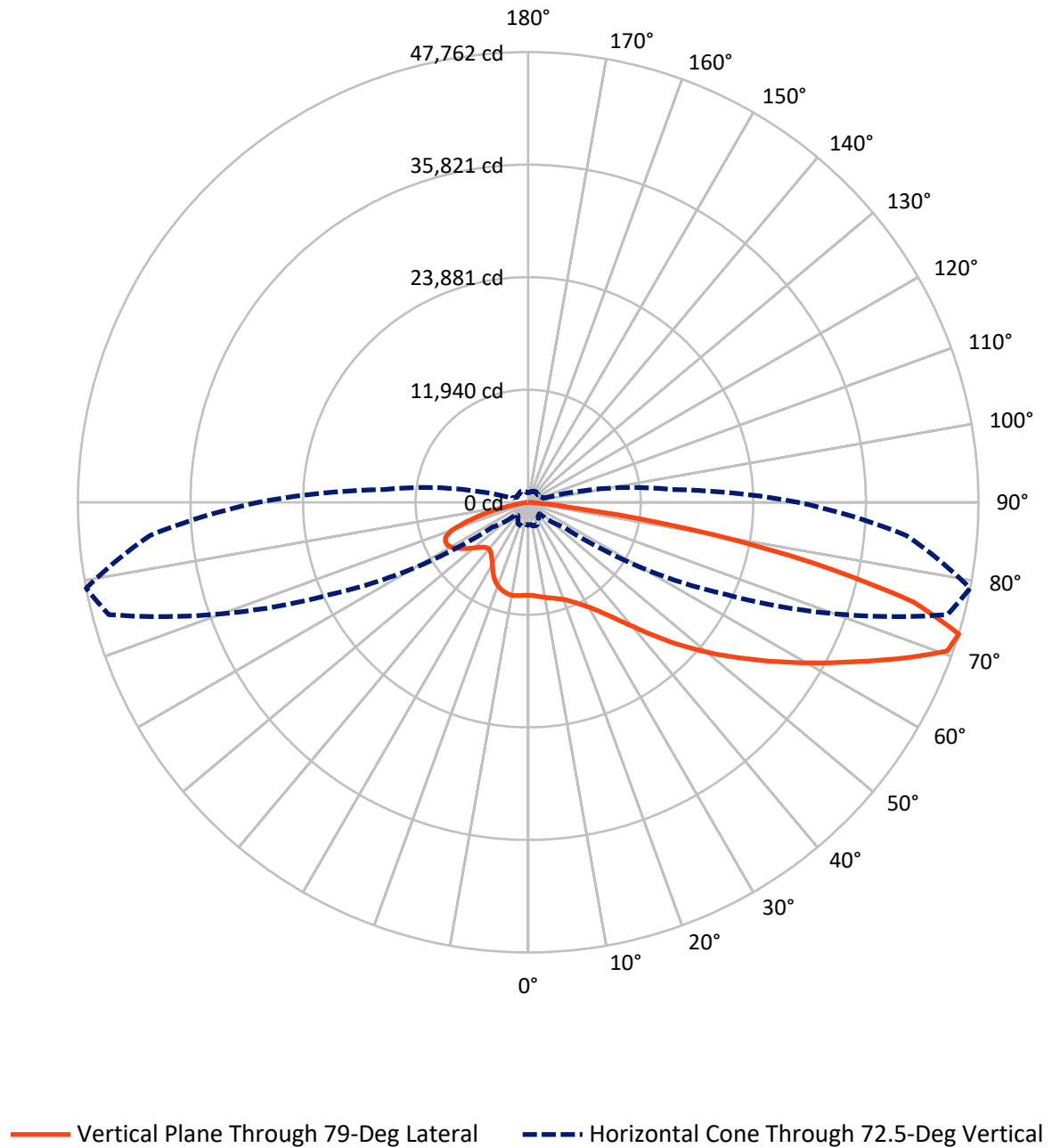
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10805.1	0.0	10805.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	38296.9	0.0	38296.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	49102.0	0.0	49102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.7	1.8
10°-20°	2339.2	4.8
20°-30°	3774.5	7.7
30°-40°	5665.1	11.5
40°-50°	8036.2	16.4
50°-60°	10148.6	20.7
60°-70°	10307.3	21.0
70°-80°	7024.9	14.3
80°-90°	911.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49102.0	100.0
0°-180°	49102.0	100.0

Coefficient of Utilization



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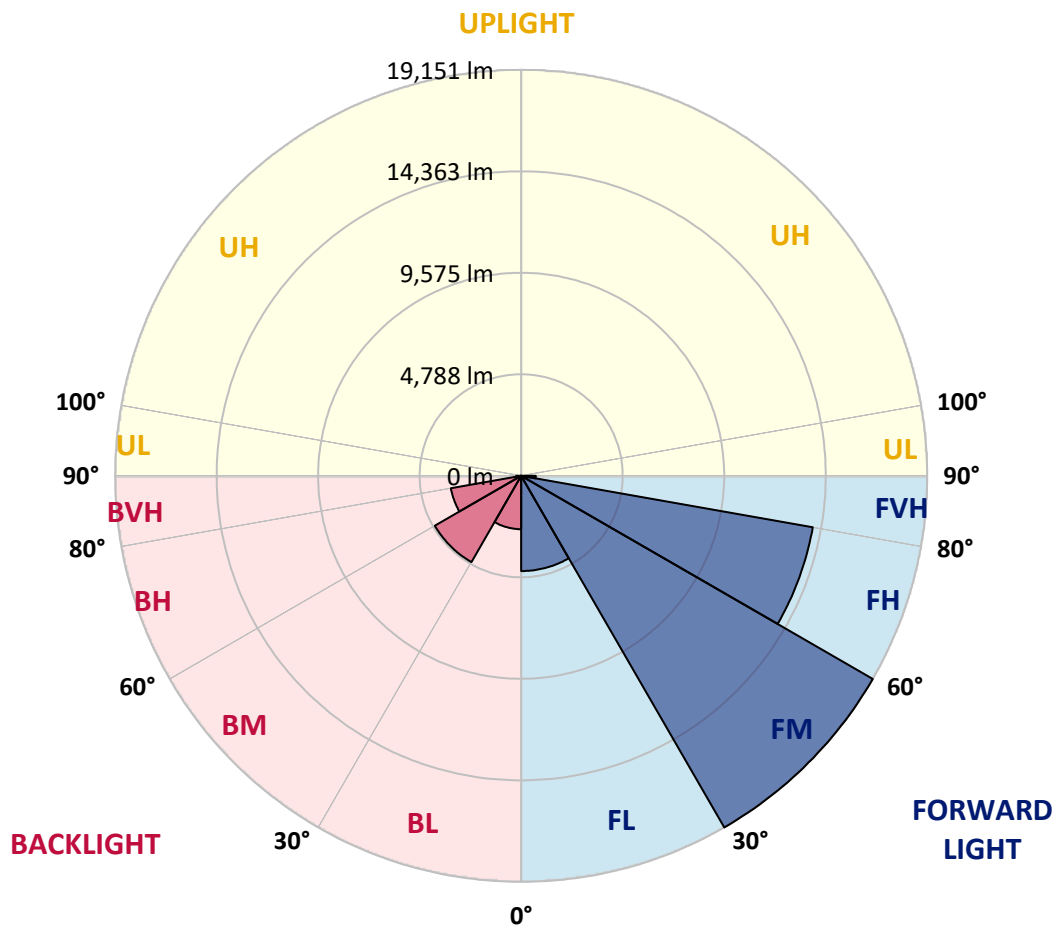
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4491.6	9.1			
FM	(30°-60°)	19150.8	39.0			
FH	(60°-80°)	13967.9	28.4			G5
FVH	(80°-90°)	686.6	1.4			G4/750
BL	(0°-30°)	2516.8	5.1	B4/5000		
BM	(30°-60°)	4699.1	9.6	B3/5000		
BH	(60°-80°)	3364.4	6.9	B4/5000		G4/5000
BVH	(80°-90°)	224.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8
2.5°	9862.0	9815.2	9843.8	9833.4	9846.4	9862.0	9867.1	9874.9	9900.9	9898.3	9895.7
5°	9841.2	9794.4	9833.4	9820.4	9854.2	9890.5	9921.7	9950.3	9991.8	10010.0	9984.0
7.5°	9797.0	9765.9	9804.8	9843.8	9906.1	9960.7	10004.8	10069.7	10129.5	10139.9	10158.0
10°	9539.9	9516.5	9607.4	9708.7	9880.1	10028.2	10124.3	10199.6	10264.5	10274.9	10300.9
12.5°	9272.4	9243.8	9345.1	9482.7	9760.7	10028.2	10230.8	10329.5	10386.6	10420.4	10459.3
15°	9228.2	9204.8	9262.0	9381.5	9612.6	9958.1	10303.5	10485.3	10534.7	10573.6	10589.2
17.5°	9441.2	9397.0	9420.4	9462.0	9597.0	9893.1	10360.6	10661.9	10737.2	10778.8	10778.8
20°	9934.7	9872.3	9836.0	9752.9	9729.5	9903.5	10355.4	10874.9	10973.6	11025.5	11038.5
22.5°	10591.8	10550.2	10472.3	10261.9	10033.4	10030.8	10454.1	11147.6	11332.0	11381.4	11350.2
25°	11386.6	11324.2	11225.5	10939.8	10500.9	10282.7	10620.4	11495.7	11804.7	11817.7	11726.8
27.5°	12300.8	12207.3	12072.3	11695.6	11103.5	10677.5	10874.9	11895.6	12347.6	12342.4	12155.4
30°	13264.4	13170.9	13028.1	12570.9	11825.5	11210.0	11228.1	12326.8	12991.7	12963.1	12643.7
32.5°	13968.3	13898.2	13869.6	13516.4	12656.7	11838.5	11633.3	12804.7	13786.5	13760.5	13313.8
35°	14508.5	14417.6	14451.4	14272.2	13563.1	12542.4	12129.4	13373.5	14752.7	14750.1	14194.3
37.5°	15043.6	14963.1	14991.6	14872.1	14402.0	13435.8	12734.6	14069.6	15950.0	16007.2	15259.1
40°	15531.9	15446.2	15560.4	15448.8	15054.0	14386.5	13422.9	14856.6	17337.0	17446.1	16547.4
42.5°	15825.4	15757.8	15947.4	15950.0	15620.2	15189.0	14178.7	15724.1	18942.1	19186.3	18131.8
45°	15926.7	15903.3	16189.0	16248.7	16121.5	15653.9	14859.2	16669.5	20671.9	21108.3	19936.9
47.5°	15817.6	15773.4	16168.2	16389.0	16490.3	15872.1	15422.8	17692.8	22438.1	23077.0	21905.6
50°	15266.9	15181.2	15768.2	16233.1	16594.2	16015.0	15991.6	18874.6	24445.8	25144.5	23884.8
52.5°	14277.4	14212.4	14879.9	15687.7	16365.6	16085.1	16630.5	20165.4	26352.2	27256.1	25913.3
55°	13012.5	12926.8	13661.8	14716.3	15796.8	16061.7	17269.5	21609.5	28601.5	29518.3	28009.3
57.5°	11007.4	10835.9	11765.8	13012.5	14869.6	16033.1	17934.4	23045.9	30887.1	31985.8	30245.6
60°	8082.8	7828.3	8968.5	10446.3	13056.6	15755.2	18757.7	24656.2	33629.9	34619.4	32687.0
62.5°	4706.3	4558.3	5303.7	6682.9	9841.2	14118.9	19220.0	26528.8	36325.9	37364.8	35086.9
65°	3654.4	3612.8	3677.8	3784.3	5477.7	10571.0	17794.1	28354.7	39754.3	40481.5	37588.1
67.5°	3342.7	3311.6	3340.1	3140.1	2779.1	5888.1	14077.4	28817.1	43426.9	43868.4	39777.7
70°	2971.3	2935.0	3028.5	2857.0	2186.9	2677.8	9095.8	27139.2	46348.8	47177.4	41442.5
72.5°	2420.7	2379.1	2597.3	2519.4	1841.5	1719.4	4568.7	23152.3	46042.4	47761.8	40250.4
75°	1859.7	1836.3	2096.0	2161.0	1501.2	1353.2	2192.1	17209.7	40517.9	42250.3	34689.6
77.5°	1444.1	1425.9	1558.4	1794.7	1210.3	1049.3	1348.0	10916.5	30533.9	30837.8	23905.6
80°	1083.1	1031.1	1153.2	1389.6	942.8	766.2	914.3	6366.0	19300.5	17495.4	10404.8
82.5°	677.9	651.9	753.2	927.2	664.9	527.3	594.8	3516.7	7734.8	4555.7	2007.7
85°	387.0	376.6	410.4	529.8	361.0	303.9	340.2	1553.2	1412.9	971.4	605.2
87.5°	155.8	150.6	187.0	236.4	132.5	111.7	119.5	374.0	311.7	288.3	200.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8	9856.8
2.5°	9885.3	9885.3	9849.0	9791.8	9726.9	9685.3	9617.8	9599.6	9529.5	9508.7	9542.5
5°	10004.8	9984.0	9872.3	9711.3	9490.5	9288.0	9064.6	8924.3	8726.9	8656.8	8708.8
7.5°	10155.4	10098.3	9906.1	9552.9	9090.6	8636.0	8163.3	7804.9	7462.0	7340.0	7355.6
10°	10293.1	10212.6	9885.3	9267.2	8467.2	7680.2	6927.0	6399.8	5999.8	5836.1	5872.5
12.5°	10430.8	10282.7	9747.7	8791.9	7581.5	6514.0	5711.5	5301.1	5054.3	4857.0	4921.9
15°	10560.6	10352.8	9534.7	8155.5	6610.1	5527.1	4934.9	4607.6	4410.2	4280.4	4303.7
17.5°	10711.3	10412.6	9215.2	7347.8	5685.5	4844.0	4360.9	4163.5	4124.5	4108.9	4119.3
20°	10921.7	10467.1	8794.5	6443.9	5005.0	4298.5	4049.2	4031.0	4028.4	4020.6	4046.6
22.5°	11147.6	10532.1	8238.6	5623.2	4425.8	3958.3	3914.1	3877.8	3854.4	3851.8	3880.4
25°	11415.1	10552.8	7542.6	4950.5	3932.3	3797.3	3745.3	3690.8	3675.2	3675.2	3690.8
27.5°	11674.9	10482.7	6732.2	4366.1	3654.4	3649.2	3581.7	3563.5	3560.9	3568.7	3589.5
30°	11934.6	10350.2	5927.0	3825.8	3493.4	3493.4	3470.0	3483.0	3493.4	3519.3	3537.5
32.5°	12285.2	10210.0	5254.3	3425.8	3353.1	3327.1	3350.5	3376.5	3386.9	3420.6	3449.2
35°	12799.5	10111.3	4719.3	3207.7	3207.7	3173.9	3186.9	3181.7	3158.3	3142.7	3179.1
37.5°	13480.0	10106.1	4277.8	3106.4	3085.6	3080.4	3083.0	3049.2	2958.3	2849.2	2851.8
40°	14298.1	10246.4	3937.5	3036.2	3020.7	3051.8	3036.2	2945.3	2696.0	2506.4	2501.2
42.5°	15396.8	10646.3	3719.3	2950.5	2997.3	3036.2	2973.9	2659.6	2490.8	2363.5	2358.3
45°	16690.3	11295.7	3607.7	2859.6	2953.1	2999.9	2698.6	2560.9	2425.9	2272.6	2262.2
47.5°	18155.1	12113.8	3581.7	2773.9	2854.4	2883.0	2581.7	2519.4	2366.1	2199.9	2186.9
50°	19749.9	13082.6	3651.8	2672.6	2711.6	2612.9	2542.8	2485.6	2327.2	2163.6	2145.4
52.5°	21399.2	14150.1	3792.1	2535.0	2568.7	2459.6	2527.2	2477.8	2303.8	2083.0	2067.5
55°	23019.9	15225.4	3927.1	2373.9	2423.3	2322.0	2483.0	2446.7	2197.3	1948.0	1935.0
57.5°	24666.6	16295.5	4059.6	2231.1	2283.0	2189.5	2412.9	2363.5	2077.8	1823.3	1818.1
60°	26378.2	17334.4	4121.9	2093.4	2129.8	2067.5	2306.4	2220.7	1942.8	1696.0	1688.2
62.5°	27980.7	18199.3	4020.6	1955.8	1979.1	1953.2	2166.1	2051.9	1807.7	1553.2	1550.6
65°	29588.5	18713.6	3708.9	1820.7	1825.9	1812.9	1968.8	1870.1	1649.3	1428.5	1412.9
67.5°	31045.5	19001.9	3212.9	1675.3	1662.3	1657.1	1784.3	1672.7	1496.0	1303.8	1288.3
70°	31354.6	18269.4	2454.5	1503.8	1503.8	1490.9	1581.8	1467.5	1327.2	1171.4	1166.2
72.5°	28637.8	15368.2	1742.8	1309.0	1329.8	1303.8	1379.2	1283.1	1155.8	1051.9	1020.7
75°	23092.6	11269.7	1267.5	1109.0	1145.4	1101.3	1171.4	1103.9	994.8	992.2	893.5
77.5°	15866.9	6968.6	919.4	914.3	940.2	883.1	963.6	927.2	828.5	784.4	735.0
80°	6771.2	2779.1	670.1	706.5	706.5	654.5	748.0	758.4	672.7	651.9	651.9
82.5°	1348.0	789.6	470.1	485.7	457.1	441.5	529.8	587.0	810.4	901.3	903.9
85°	405.2	290.9	283.1	264.9	233.8	236.4	311.7	589.6	727.2	415.6	358.4
87.5°	111.7	72.7	75.3	59.7	49.3	64.9	106.5	446.7	244.1	103.9	88.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)